

Abstract

The invention is a divider block assembly suitable for use at high fluid pressures.

Applicant has found that divider blocks in common use deform sufficient at high pressures to have an adverse affect on accurate fluid delivery and component longevity. A preferred high pressure divider block uses divider block sections engineered for high pressure applications with substantially thicker material surrounding the piston bore, utilizing precise bolt placement on the divider block sections to ensure even pressure to prevent distortion of the piston bore, and engineered base plate inlet and end sections that allow mounting of divider blocks without the addition of extra intermediate sections to reduce leak paths and bolts to secure the base together more firmly, all bolts being torqued to prevent distortion while sealing fluid passages. The use of any of these aspects separately can improve performance, and not all are required in every embodiment.